IN THE CLAIMS

The claims as currently presented and under consideration, are presented below.

- 1. (Withdrawn): A nucleic acid encoding a modified xylanase comprising a polypeptide having an amino acid sequence as set forth in SEQ ID NO:1, wherein the sequence has at least one substituted amino acid residue at a position selected from the group consisting of: 2, 5, 7, 10, 11, 16, 19, 22, 26, 28, 29, 30, 34, 36, 38, 57, 58, 61, 63, 65, 67 92, 93, 97, 105, 108, 110, 111, 113, 132, 143, 144, 147, 149, 151, 153, 157, 160, 162, 165, 169, 180, 184, 186, 188, 190 and +191.
- 2. (Withdrawn): The nucleic acid according to Claim 1, wherein the substitution is selected from the group consisting of: 2, 22, 28, 58, 65, 92, 93, 97, 105, 108, 144, 162, 180, 186 and +191.
- 3. (Withdrawn): The nucleic acid according to Claim 2, wherein the xylanase has at least one substitution selected from the group consisting of: H22K, S65C, N92C, F93W, N97R, V108H, H144C, H144K, F180Q and S186C.
- 4. (Withdrawn): The nuclec acid according to Claim 3, wherein the xylanase has the following mutations: F93W, N97R and H144K.
- 5. (Withdrawn): The nucleic acid according to Claim 3, wherein the xylanase has the following mutations: H144C and N92K.
- 6. (Withdrawn): The nucleic acid according to Claim 3, wherein the xylanase has the following mutations: F180Q, H144C and N92C.
 - 7. (Withdrawn): The nucleic acid according to Claim 3, wherein the xylanase has the following mutations: H22K and F180Q.
 - 8. (Withdrawn): The nucleic acid according to Claim 3, wherein the xylanase has the following mutations: V108H.

- 9. (Withdrawn): The nuceic acid according to Claim 3, wherein the xylanase has the following mutations: S65C and S186C.
- 10. (Withdrawn): The nucleic acid according to Claim 3, wherein the xylanase has the following mutations: H22K, F180Q, H144C and N92C.
- 11. (Original): A modified xylanase comprising a polypeptide having an amino acid sequence as set forth in SEQ ID NO:1, wherein the sequence has at least one substituted amino acid residue at a position selected from the group consisting of: 2, 5, 7, 10, 11, 16, 19, 22, 26, 28, 29, 30, 34, 36, 38, 57, 58, 61, 63, 65, 67 92, 93, 97, 105, 108, 110, 111, 113, 132, 143, 144, 147, 149, 151, 153, 157, 160, 162, 165, 169, 180, 184, 186, 188, 190 and +191.
- 12. (Original): The xylanase according to Claim 11, wherein the substitution is selected from the group consisting of: 2, 22, 28, 58, 65, 92, 93, 97, 105, 108, 144, 162, 180, 186 and +191.
- 13. (Original): The xylanase according to Claim 12, wherein the modified xylanase has at least one substitution selected from the group consisting of. H22K, S65C, N92C, F93W, N97R, V108H, H144C, H144K, F180Q and S186C.
- 14. (Original): The xylanase according to Claim 13, wherein the xylanase has the following mutations: F93W, N97R and H144K.
- 15. (Original): The xylanase according to Claim 13, wherein the xylanase has the following mutations: H144C and N92K.
- 16. (Original): The xylanase according to Claim 13, wherein the xylanase has the following mutations: F180Q, H144C and N92C.
- 17. (Original): The xylanase according to Claim 13, wherein the xylanase has the following mutations: H22K and F180Q.

- The xylanase according to Claim 13, wherein the xylanase has the 18. (Original): following mutations: V108H.
- The xylanase according to Claim 13, wherein the xylanase has the 19. (Original): following mutations: S65C and S186C.
- The xylanase according to Claim 13, wherein the xylanase has the 20. (Original): following mutations: H22K, F180Q, H144C and N92C.
- A modified enzyme, the modified enzyme comprising an amino acid 21. (Original): sequence, the amino acid sequence being homologous to the sequence set forth in SEQ ID NO:1, the amino acid sequence having at least one substituted amino acid residue at a position equivalent to a position selected from the group consisting of: 2, 5, 7, 10, 11, 16, 19, 22, 26, 28, 29, 30, 34, 36, 38, 57, 58, 61, 63, 65, 67, 92, 93, 97, 105, 108, 110, 111, 113, 132, 143, 144, 147, 149, 151, 153, 157, 160, 162, 165, 169, 180, 184, 186, 188, 190 and +191.
- The enzyme according to Claim 21, wherein homology to the sequence 22. (Original): set forth in SEQ ID NO:1 is at least 20%.
- The enzyme according to Claim 22, wherein the amino acid sequence 23. (Original): has at least one substituted amino acid residue at a position equivalent to a position selected from the group consisting of: 2, 22, 28, 58, 65, 92, 93, 97, 105, 108, 144, 162, 180, 186 and +191.
- A glycosyl hydrolase of Clan C comprising an amino acid sequence, the 24. (Original): amino acid sequence being homologous to the sequence set forth in SEQ ID NO:1, the amino acid sequence having at least one substituted amino acid residue at a position equivalent to a position selected from the group consisting of: 2, 5, 7, 10, 11, 16, 19, 22, 26, 28, 29, 30, 34, 36, 38, 57, 58, 61, 63, 65, 67, 92, 93, 97, 105, 108, 110, 111, 113, 132, 143, 144, 147, 149, 151, 153, 157, 160, 162, 165, 169, 180, 184, 186, 188, 190 and +191.

- 25. (Original): The glycosyl hydrolase according to Claim 24, wherein homology to the sequence set forth in SEQ ID NO:1 is at least 20%.
- 26. (Original): The glycosyl hydrolase according to Claim 25, wherein the amino acid sequence has at least one substituted amino acid residue at a position equivalent to a position selected from the group consisting of: 2, 22, 28, 58, 65, 92, 93, 97, 105, 108, 144, 162, 180, 186 and +191.
- 27. (Original): A modified family 11 xylanase comprising an amino acid sequence, the amino acid sequence being homologous to the sequence set forth in SEQ ID NO:1, the amino acid sequence having at least one substituted amino acid residue at a position equivalent to a position selected from the group consisting of: 2, 5, 7, 10, 11, 16, 19, 22, 26, 28, 29, 30, 34, 36, 38, 57, 58, 61, 63, 65, 67, 92, 93, 97, 105, 108, 110, 111, 113, 132, 143, 144, 147, 149, 151, 153, 157, 160, 162, 165, 169, 180, 184, 186, 188, 190 and +191.
- 28. (Original): The xylanase according to Claim 27, wherein homology to the sequence set forth in SEQ ID NO:1 is at least 20%.
- 29. (Original): The xylanase according to Claim 28, wherein the amino acid sequence has at least one substituted amino acid residue at a position equivalent to a position selected from the group consisting of: 2, 22, 28, 58, 65, 92, 93, 97, 105, 108, 144, 162, 180, 186 and +191.
- 30. (Withdrawn): A family 12 cellulase comprising an amino acid sequence, the amino acid sequence being homologous to the sequence set forth in SEQ ID NO:1, the amino acid sequence having at least one substituted amino acid residue at a position equivalent to a position selected from the group consisting of: 2, 5, 7, 10, 11, 16, 19, 22, 26, 28, 29, 30, 34, 36, 38, 57, 58, 61, 63, 65, 67, 92, 93, 97, 105, 108, 110, 111, 113, 132, 143, 144, 147, 149, 151, 153, 157, 160, 162, 165, 169, 180, 184, 186, 188, 190 and +191.
- 31. (Withdrawn): The cellulose according to Claim 30, wherein homology to the sequence set forth in SEQ ID NO:1 is at least 20%.

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- The cellulose according to Claim 31, wherein the amino acid sequence 32. (Withdrawn): has at least one substituted amino acid residue at a position equivalent to a position selected from the group consisting of: 2, 22, 28, 58, 65, 92, 93, 97, 105, 108, 144, 162, 180, 186 and +191.
- The xylanase according to Claim 12, wherein the modified xylanase 33. (New): comprises a substitution at position 2, 28, 58, 144 and +191.
- The xylanase according to Claim 33, further comprising a substitution at a 34. (New): position selected from position 22, 65, 92, 93, 97, 108, 180, and 186.
- The modified family 11 xylanase according to Claim 27, wherein the 35. (New): sequence homologous to the sequence set forth in SEQ ID NO:1 has at least 90% sequence identity to SEQ ID NO:1.
- The xylanase according to Claim 35, wherein the modified xylanase has a 36. (New): substitution at positions 2, 28, 58, 144 and +191.
- The xylanase according to Claim 36, wherein the substitution at position 37. (New): 144 is K or C.
- The xylanase according to Claim 36 further comprising a substitution at a 38. (New): position selected from position 22, 65, 92, 93, 97, 108, 180 and 186.
- The xylanase according to Claim 38, wherein the xylanase has a 39. (New): substitution at position 22, 92, 93, 97, 108 or 180.